3. A rate controlling membrane according to claim 1 wherein the membrane comprises polyurethanes or polyether blocked amides copolymers [ethylene vinyl acetate copolymer].

- 10. A rate controlling membrane according to claim 3 [2] wherein the membrane comprises [a material selected from the group consisting of] polyurethanes [or polyether blocked amides copolymers]
- 11. A rate controlling membrane according to claim 1 [10]wherein the membrane is positioned in sealing relationship with an internal surface of one end of an impermeable reservoir of a fluid-imbibing drug delivery device, wherein said fluid imbibing drug delivery device comprises an impermeable reservoir containing a piston that divides the reservoir into a drug containing chamber and a water-swellable agent containing chamber, wherein the water-swellable agent containing chamber is provided with an outlet which accommodates said membrane.
- 12. A rate controlling membrane according to claim <u>3</u> [11]wherein the drug containing chamber comprises leuprolide.
- 14. A rate controlling membrane [according to claim 1] for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 30° C to about 5° C below the melting temperature of the membrane polymer for a predetermined period of about 1 to 250 hours and subsequently incorporated into the delivery device wherein the membrane is cooled to ambient conditions before being incorporated into the delivery device.
- 17. A method for processing rate controlling membranes used in [controlled] implantable drug delivery devices comprising:
- a) allowing the membrane to relax at room temperature for about
 12 hours to 7 days before being subjected to elevated temperature;
- [a] <u>b</u>) exposing the membrane to a predetermined temperature of from about 30° C to about 5°C below the melting temperature of the membrane polymer;

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device.

[b] <u>c</u>) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 250 hours; and

[c] <u>d</u>) incorporating said membrane into a controlled drug delivery

22. A method according to claim 17 wherein the membrane is formed from a material selected from the group consisting of[ethylene vinyl acetate copolymers, polyethylene, ethylene copolymers, ethylene oxide copolymers, polyamides, cellulosic materials,] polyurethanes <u>and</u> polyether blocked amides copolymers [, and polyvinyl acetate].

Please add claims 34 through 63:

- 34. A rate controlling membrane according to claim 1 wherein the membrane comprises polyether blocked amides copolymers.
- 35. A rate controlling membrane according to claim 10 wherein the polyurethane is a single aliphatic polyether polyurethane or a blend of aliphatic polyether polyurethanes.
- 36. A rate controlling membrane according to claim 11 wherein the drug containing chamber comprises an opioid analgesic drug.
- 37. A rate controlling membrane according to claim 11 wherein the drug containing chamber comprises an antiviral drug.
- 38. A rate controlling membrane according to claim 11 wherein the drug containing chamber comprises an antineoplastic drug.
- 39. A rate controlling membrane according to claim 10 wherein the membrane is allowed to relax at room temperature for about 12 hours to 7 days before being annealed.
- 40. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 30° C to about 5° C below the melting temperature of the membrane polymer for a predetermined period of about 1 to 250 hours and subsequently incorporated into

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the delivery device wherein the membrane is allowed to relax at room temperature for about 12 hours to 7 days before being annealed.

- A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours and subsequently incorporated into the delivery device.
- 42. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours and subsequently incorporated into the delivery device wherein the membrane is cooled to ambient conditions before being incorporated into the delivery device.
- 43. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours and subsequently incorporated into the delivery device, wherein the membrane is allowed to relax at room temperature for about 12 hours to 7 days before being subjected to an elevated temperature.
- 44. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours and subsequently incorporated into the delivery device wherein during processing the membrane is dried to about 0 to about 1 % moisture content before being annealed and wherein the membrane is kept at about 0 to about 1% moisture content during annealing.
- 45. A rate controlling membrane for an implantable drug delivery device characterized by allowing the membrane to relax at room temperature for about 12 hours to 7 days before being annealed; subjecting the membrane to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours; and cooling the membrane to ambient conditions before being incorporated into the delivery device.

- 46. A rate controlling membrane for an implantable drug delivery device characterized by allowing the membrane to relax at room temperature for about 12 hours to 7 days before being annealed; drying the membrane to about 1 to 2% moisture content; subjecting the membrane to an elevated temperature of about 52° C to about 72° C for a predetermined period of about 2 to 36 hours while keeping the moisture content of the membrane at about 1 to 2%; and cooling the membrane to ambient conditions before being incorporated into the delivery device.
- 47. A rate controlling membrane according to claim 10 wherein the elevated temperature is about 50 80° C and the predetermined time is about 4 hours 72 hours.
- 48. A method for processing rate controlling membranes used in implantable drug delivery devices comprising:
- a) allowing the membrane to relax at room temperature for about12 hours to 7 days;
- b) exposing the relaxed membrane to a predetermined temperature of from about 30° C to about 5°C below the melting temperature of the membrane polymer;
- c) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 250 hours; and
- d) incorporating said membrane into a controlled drug delivery device.
- 49. A method for processing rate controlling membranes used in implantable drug delivery devices comprising:
- a) allowing the membrane to relax at room temperature for about
 12 hours 7 days;
- b) exposing the relaxed membrane to a predetermined temperature of from about 30° C to about 5°C below the melting temperature of the membrane polymer;

- c) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 250 hours;
- d) allowing the annealed membrane to cool to room temperature for about 0.1 to 250 hours; and
- e) incorporating said membrane into a controlled drug delivery device.
- 50. A method according to claim 17 wherein the membrane comprises polyether blocked amides copolymers.
- 51 A method according to claim 50 wherein the predetermined temperature is about 55-75° C and the period of time is about 12 48 hours.
- 52 A method according to claim 51 wherein the membrane is positioned in sealing relationship with an internal surface of one end of an impermeable reservoir of a fluid-imbibing drug delivery device, wherein said fluid imbibing drug delivery device comprises an impermeable reservoir containing a piston that divides the reservoir into an active agent containing chamber and a water-swellable agent containing chamber, wherein the water-swellable agent containing chamber is provided with an outlet which accommodates said membrane.
- 53. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 45° C to about 80° C for a predetermined period of about 1 75 hours and subsequently incorporated into the delivery device.
- 54. A method for processing rate controlling membranes with low variability of water uptake from membrane to membrane for an implantable drug delivery device comprising:
- a) allowing the membrane to relax at room temperature for about 12 hours7 days;
 - b) drying the moisture content of the membrane to about 0 to about 1%;

- c) exposing the relaxed membrane to a predetermined temperature of from about 30° C to about 5°C below the melting temperature of the membrane polymer while maintaining the low moisture content of the membrane;
- d) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 250 hours;
- e) allowing the annealed membrane to cool to room temperature for about 0.1 to 250 hours; and
 - f) incorporating said membrane into a controlled drug delivery device.
- 55. A rate controlling membrane for an implantable drug delivery device with decreased variability of water uptake from membrane to membrane.
- 56. A rate controlling membrane for an implantable drug delivery device characterized by being subjected to an elevated temperature of about 55° C 75° C for a predetermined period of about 12 48 hours wherein the membrane comprises a material selected from the group consisting of polyurethanes or polyether blocked amides copolymers.
- 57. A method for processing rate controlling membranes used in implantable drug delivery devices comprising:
- a) allowing the membrane to relax at room temperature for about12 hours to 7 days before being subjected to elevated temperature;
- b) exposing the membrane to a predetermined temperature of from about 45° C to about 80°C;
- c) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 250 hours; and
- d) incorporating said membrane into a controlled drug delivery device.
- 58. A method for processing rate controlling membranes used in implantable drug delivery devices comprising:
- a) allowing the membrane to relax at room temperature for about12 hours to 7 days before being subjected to elevated temperature;

a) exposing the membrane to a predetermined temperature of from about 45° C to about 80°C;

- b) maintaining the membrane at the predetermined temperature for a period of time of from about 1 to 75 hours; and
- c) incorporating said membrane into a controlled drug delivery device.
- 59. A rate controlling membrane according to claim 3 wherein the membrane comprises polyether blocked amides copolymers.
- 60. An annealed rate controlling membrane for an implantable drug delivery device wherein the annealed membrane exhibits more stable water uptake and more stable water permeability than a non-annealed membrane.
- 61. An annealed rate controlling membrane for an implantable drug delivery device wherein the annealing process decreases the variability of water uptake from membrane to membrane over time.
- 62. A rate controlling membrane according to claim 1 wherein the drug containing chamber comprises leuprolide.
- 63. A rate controlling membrane according to claim 10 wherein the drug containing chamber comprises leuprolide.

REMARKS

Claims 1 through 33 are currently pending in the application. By this Preliminary Amendment claims 2, 4, 5, 6, 7, 8, 9, 21, 23, 24, 25, 26, and 27 are being cancelled. Claims 1, 3, 10, 11, 12, 14, 17, and 22 are being amended. These claims recite rate controlling membranes for implantable drug delivery devices and methods for processing rate controlling membranes for implantable drug delivery devices. Support for these amendments may be found, for example, at page 9, paragraph 00046; page 14, paragraph 00058; page 14, paragraph 00059; page 16, paragraph 00064; page 17, paragraph 00065; page 28, paragraph 00089 (Example 8); page 30, paragraph 00093 (Example 11); and